Notebook

User’s Manual

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Preface

Using This Manual

This User's Manual contains general information about your notebook, hardware and software setup information, trouble-shooting, and technical specifications.

Symbols and Conventions

The following conventions and symbols are used in this manual:

- When keys are to be pressed at the same time, a plus (+) symbol is used. For instance, Fn+F7 means holding Fn and F7 keys at the same time.
- The file names are printed in uppercase type. For instance, WELCOME.EXE.
- When a series of clicking actions is needed in Windows O/S, [ ] and > symbols are used. For instance, [Start > Settings > Control Panel > Multimedia] means clicking the Start icon first, then the Settings, then the Control Panel, then the Multimedia icon.
- When you need to make a selection with the touch pad (or mouse), you will be asked to `select` or `click` or `double-click` the item.

Note: Text in this format and symbol means specific instructions, commentary, sidelights, or any additional information or notes that you should be aware of.

Warning: Text is this format and symbol means that failures to comply with the given instructions or information could result in damage to your notebook or could cause bodily harm or loss of life.

Protecting Your Notebook - Avoid Abusive Handling and Adverse Environment

Follow the advice below will help ensure that you get the most out of your Investment.

Your computer will serve you well if you take good care of it.

- **n** *Do not expose the notebook to direct sunlight or place it near sources of heat.*
- **n** *Do not subject i t to temperatures below 0° C (32° F) or above 50° C (122° F).*
- **n** *Do not expose the notebook to magnetic fields.*
- **n** *Do not expose the notebook to moisture or rain.*
- **n** *Do not spill water or liquid on the notebook.*
- **n** *Do not subject the computer to adverse shock and vibration.*
- **n** *Do not expose the notebook to dust and dirt.*
- **n** *Do not place objects on top of the notebook to avoid damaging the notebook.*
- **n** *Do not place the notebook on rocky surfaces.*

Here are some ways of taking care of your AC adapter.

- **n** *Do not connect the adapter to any devices other than your notebook.*
- **n** *Do not step on the power cord or place heavy objects on top of it.*
- **n** *Carefully tuck away the power cord and any cables away from pedestrian traffic.*
- **n** *When unplugging t he power cord, do not pull on the cord itself but pull on the plug.*
- **n** *Keep the adapter away from children.*
- **n** *The total ampere ratings of the equipment plugged in should not exceed the ampere rating of the cord if you are using an extension cord.*
- **n** *The total current rating of all equipment plugged into a single wall outlet should not exceed the fuse rating.*

Here are some ways of taking care of your battery pack.

- **n** *Use only factory-original batteries of the same kind as replacements.*
- **n** *Turn off the power or enter suspend mode before removing or replacing batteries.*
- **n** *Do not tamper with the sealed battery pack.*
- **n** *Keep the battery pack away from children.*
- **n** *Dispose of used batteries according to local regulations.*
- **n** *Do not expose the battery pack to fire and recycle them if at all possible.*

When cleaning the notebook, observe these steps:

1. *Power off the notebook and remove the battery pack.*
2. *Disconnect the AC adapter.*
3. *Use a soft cloth dampened with water. Do not use liquid or aerosol cleaners.*

Contact your dealer or see your service technician if any of the following occurs:

- **n** *Notebook has been dropped or the body has been damaged.*
- **n** *Liquid has been spilled into the product.*
- **n** *The notebook does not operate normally.*

Section Summaries:

The following is a summary of the available sections and appendices in this Manual. .

Section 1: Getting to know the basics

In this section, you will learn the basic operations and features of Your Notebook It gives you a general understanding of the makeup of your Notebook.

Section 2: Trouble-Shooting

In this section, you will learn how to solve common hardware and software problems.

Appendix A: Product Specification

In this section, you will find a list of the Notebook's system Specification.

Appendix B: Agency Regulatory Notices

In this section, you will find the general electro-magnetic and safety Regulatory information.

SECTION 1

GETTING TO KNOW THE BASICS

This section introduces the features and components of the notebook computer.

Performance Features

n *Ultra-portable Mobile Office*

The notebook is both thin and light. It offers the ultimate portability with an array of features to serve your computing needs on the go.

n *High Performance Processor*

The notebook is equipped with an Intel CENTRINO™ processor is the latest Intel® Pentium® M processor. It is a high performance, low-power core mobile processor with several micro-architectural enhancements over existing Intel mobile processors. It is powerful but consumes less energy. The processor also supports up to 1.7GHz Source-Synchronous processor system 400-MHz front side bus bandwidth with Advanced Power Management features including Enhanced Intel® SpeedStep® technology for unparalleled performance.

n *Advanced Graphic Engine*

An integrated 4X AGP 2D/3D video processor for high performance graphics integrated in Intel® Montara graphics chip also incorporates a hardware-based motion-compensation engine which gives you smooth MPEG video playback 3D graphics capability also add realism to PC games.

n *Expandability and Swappable Device Bay Convenience*

The system offers changeable hard disk drive and 2 DDR SDRAM sockets for expansion, allowing the user to easily increase the storage and system

capacities as the need arises.

n ***Large LCD Display***

The notebook is equipped with a large 14.1-inch TFT SXGA+ active matrix display panel for clear text and brilliant colors.

n ***Audio Capability***

The audio playback function supports 4-bit 3D stereo expansion for simulated surround 3D audio, 64- voices DirectSound, and uses a hardware-based wave-table.

n ***Communication Features***

The system provides built-in Ethernet network adapter for local network and 56K modem for peer-to-pear connection or dial-up remote network.

n ***Firewire (IEEE 1394 / IEEE 1394a-2000) and USB ports***

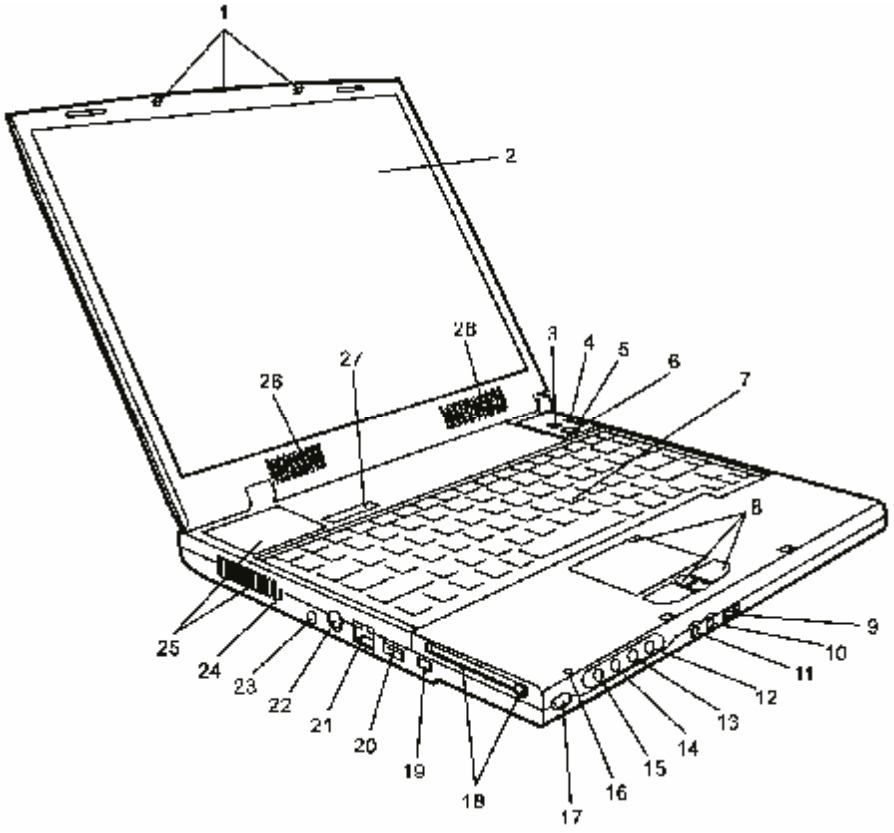
In addition to a full array of built-in I/O ports, the notebook computer offers IEEE 1394 for ultra-high speed connection to high bandwidth digital video devices and 3 USB 2.0 ports to connect to any USB-based peripheral devices.

- ***Wireless Communication***

The optional internal Intel® PRO/Wireless 2100 LAN (WLAN) module allows your notebook to connect wirelessly to other 802.11 a/b-enabled systems, devices or networks.

System at a Glance

Top View



Note:
The Turbo Key will have no effect on models that do not support Intel Speed Step function.

1. **LCD Latch**
   The LCD latches lock / unlock the LCD panel.

2. **LCD Display**
   The panel is where the system content is displayed.

3. **Turbo Key**
   The Turbo key disables the Intel® SpeedStep® function; the processor will perform at its highest frequency.

4. **Suspend LED**

   Flashing green light indicates the notebook is in suspended mode. (See the LED Status Indicator Section for details.)

5. **Charger LED**

   The LED indicates the charging status of the battery pack. (See the LED Status Indicator Section for details.)

6. **Power/Suspend Button with Built-in Power LED**

   The power/suspend button turns the notebook on and off and it also acts as a system suspend key. This notebook uses a one-button design. Press momentarily to turn on the system. Press and hold for at least 3~4 seconds to turn off the system. How this key behaves can be defined in [Start > Settings > Control Panel > Power Options > Advanced] menu. Press the power/suspend button or any key to return from the suspend mode.
   The button has a built-in LED to indicate the system-ON status of the notebook. (See the LED Status Indicator Section for details.)
   While the built-in LED is blinking, it indicates Smart Power working.

7. **Keyboard**

   The enhanced 87/88-key keyboard is used to enter data. It has an embedded numeric keypad and cursor control keys.
   (See Keyboard Section for details.)

8. **Touch Pad with Page Up / Down Function**

   The touch pad is a built-in pointing device with functions similar to a mouse. Use the Page Up or Down key to move one page up or down in Windows applications.

9. **Audio Volume Dial**

   Use the volume dial to control the loudness of the speakers.
   Turn toward the right to increase audio loudness.

10. **Stereo Headphone Jack**

    The stereo headphone jack (3.5-mm diameter) is where you connect the headphones or external speakers.

11. **Microphone Jack**

    The microphone jack (3.5-mm diameter) is where you connect a microphone.

12. **Email Quick Key**

    The `Email Quick Key` launches the MS Outlook Express in Windows XP / 2000. For other Windows O/S, you will need to activate a utility program in the factory CD to make use of the key. (See side-note for Quick Keys installation.)

Note:
To enable the Internet Hot Key, Email Hot Key, Search Key, and My Favorite Hot Key in Windows O/S other than XP /2000, you must install the special Quick Keys application contained in the factory CD-ROM (d:\Utility \ Qkeys \SETUP.EXE). Be sure you already have setup an ISP account and MS Internet Explore.

13. **My Favorite Quick Launch Key**

    The `My Favorite Quick Key` launches any Windows application you designate in the Qkey application dialogue box. You will need to activate a utility program in the Utility CD to make use of the hot key for any Windows O/S. (See side-note for Quick Keys installation.)

14. **Search Quick Launch Key**

    The `Search Quick Key` launches the Internet Explore Search Companion in Windows XP / 2000. For other Windows O/S, you will need to activate a utility program in the factory CD to make use of the key. (See side-note for Quick Keys installation.)

15. **Internet Quick Launch Key**

    The `Internet Quick Key` launches the Internet Explore in Windows XP / 2000. For other Windows O/S, you will need to activate a utility program in the Utility CD to make use of the key. (See side-note for Quick Keys installation.)

16. **Built-in Microphone**

    The built-in microphone records voice sound.

17. **Quick Key Lock Out**

    To prevent accidental pressing of the quick keys, you may slide the button to the right position (locked position) to disable all quick launch key functions. To reverse lock-out, slide the button toward the left.

18. **PC Card Slot (PCMCIA) and Card Eject Button**

    The slot is where PC Card (PCMCIA) is inserted. Press the eject button to release the PC Card.

19. **Firewire / IEEE 1394 Port**

    This is a high-speed data port. You may connect any Fire-wire-ready device to this port.

Note:
For the system running the Windows NT platform, USB function was not supported.

20. **USB Port**

    The Universal Serial Bus (USB) port allows you to connect a wide variety of devices via the USB 2.0 cable to your notebook at very high data transfer rates of up to 480 Mbps. This port conforms to USB plug-and-play standards.

21. **Ethernet / LAN Port**

    The port connects to a network hub via the RJ-45 cable and also conforms to 10/100Base-T transmission protocol.

22. **TV (S-Video) Port**

    The S-Video port permits you to redirect the screen output to a television set or any analog video playback device. This TV Port is Macrovision-compliant; when DVD movie is played, the output is scrambled to prevent recording.

23. **Power Jack (DC-in)**

    The DC-out jack of the AC-DC Adapter connects here and powers the notebook.

24. **Kensington Lock Key Hole**

    A Kensington-type security lock latches to this key-hole for anti-theft purpose.

25. **Ventilation Grill**

    The fan grill is where air is drawn to dissipate the internal heat. Do not block this airway completely.

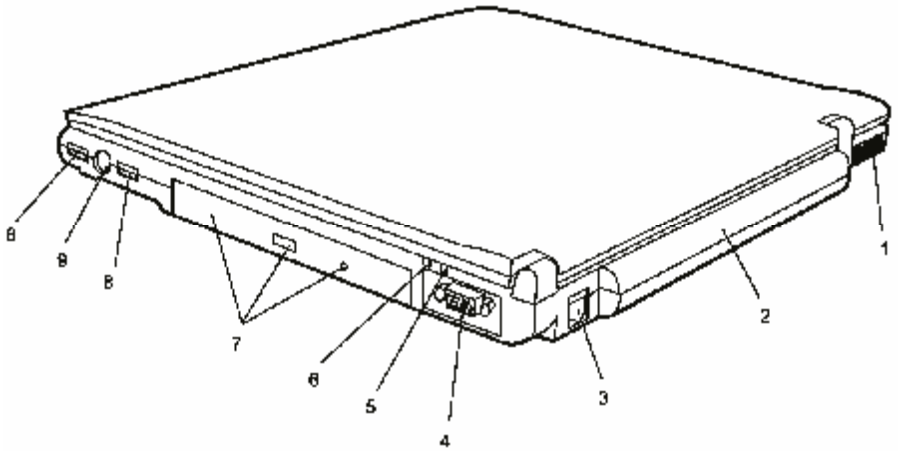
26. **Built-in Stereo Speakers**

    The built-in speakers output the sound in stereo.

27. **LED Status Indicators**

    The LED Status indicators reveal the locking/unlocking of certain key functions and HDD/CD-ROM drive status. (See the LED Status Indicator Section for details.)

Rear View



Warning:
Do not place any heavy objects on the top of notebook. That may damage the display.

1. **Ventilation Grill**
   The fan grill is where hot air is vented off. Do not block this airway completely.

2. **Battery Pack**
   The battery pack is a built-in power source for the notebook.

3. **Modem Port**
   This is where you plug the phone jack (RJ-11) for fax/modem functions.

4. **External VGA Port**
   The 15-pin VGA analog port is for connecting the external CRT monitor or projector.

4. **Suspending LED**
   Flashing green light indicates the notebook is in suspended mode. (See the LED Status Indicator Section for details.)

6. **Charger LED**
   The LED indicates the charging status of the battery pack. (See the LED Status Indicator Section for details.)

7. **CD-ROM (or DVD-ROM or CD-RW or Combo) Drive and Disk Eject Button and manual eject key hole**

   If your notebook comes with DVD-ROM / Combo drive, you may play DVD movies or regular CD-ROM disk. If it comes with CD-RW / Combo drive, you may save data onto a CD-R/ CD-RW disk. Press the eject button to eject the disk tray. The manual eject keyhole allows you to manually eject a jammed disk.

Note:
For the system running the Windows NT platform, USB function was not supported.

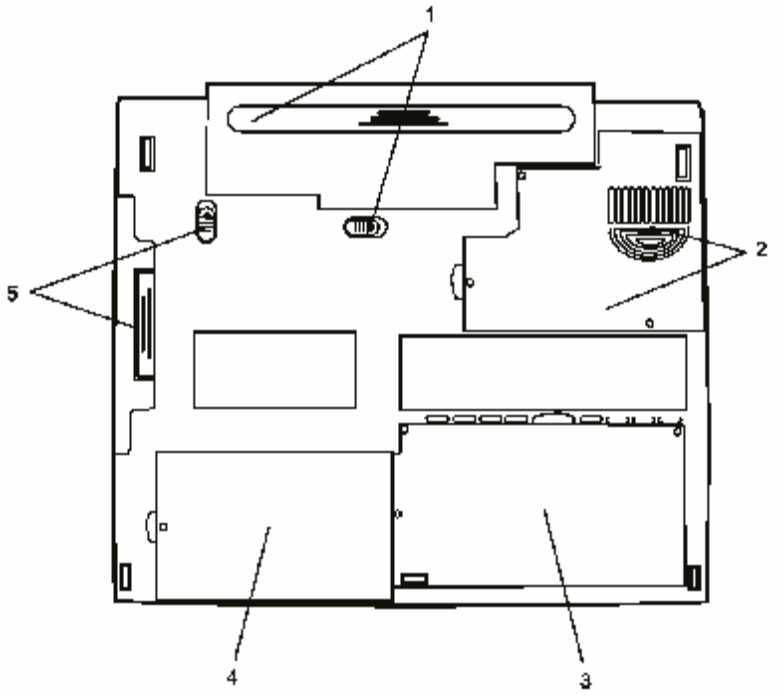
8. **USB Port (x2)**

   The Universal Serial Bus (USB) port allows you to connect a wide variety of devices via the USB 2.0 cable to your notebook at very high data transfer rates of up to 480 Mbps. This port conforms to USB plug-and-play standards.

9. **PS/2 Port**

   This is where you connect PS/2-type mouse or keyboard.

Bottom View



1. **Battery Pack and Battery Latch**

   The battery pack is a built-in power source for the notebook. Pull on the battery latch to release the battery pack.

2. **CPU Cover and Ventilation Grills**

   CPU resides underneath the cover. The grills are where air is exchanged in and out of the notebook for internal thermal regulation. Do not block the ventilation air way completely. Do not open this cover. There is no upgradeable part inside it.

3. **SO-DIMM Sockets**

   SO-DIMM Sockets reside underneath the cover.

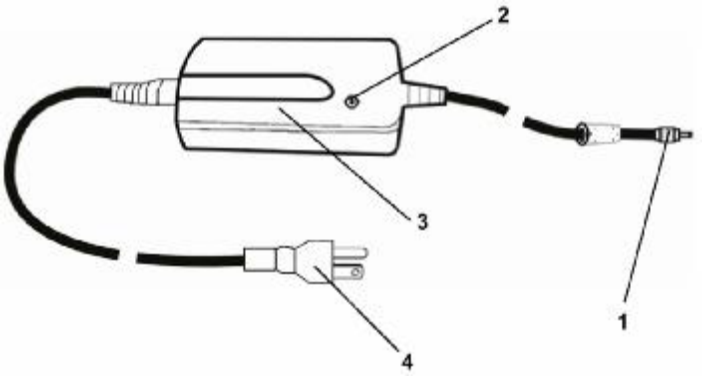
4. **Hard Disk Drive Bay**

   This is where the hard disk drive is located. The hard disk drive stores all the system data. The hard disk drive can be upgraded to a larger capacity.

5. **Swappable Device Bay**

   The optical disk drive normally resides in this bay. Pull on the latch to release the swappable device.

AC-DC Adapter



1. **DC-out Connector**
   The DC-out connector docks to the power jack (DC-in) on the notebook.

2. **LED Lamp**
   The LED lamp appears green when the unit is plugged into a valid AC source.

3. **Adapter**
   The adapter converts alternating current into constant direct current and voltage for the notebook PC.

4. **AC Plug**
   The three-prong AC plug plugs to the AC wall outlet.

LED Status Indicators

The LED Status Indicator displays the operating status of your notebook. When a certain function is enabled, an LED will light up. The following section describes its indication.

System Indicators

LED Graphic Symbol	Indication
	Green light indicates the hard drive is being accessed.
	Green light indicates the optical drive is being accessed.
	Green light indicates the embedded numeric keypad is activated.
	Green light indicates the cap-lock is activated.
	Green light indicates the scroll-lock is activated.

Power / Suspend Indicators

LED Graphic Symbol	Indication
	Green light indicates the notebook is ON or is in standby suspend mode.
	Blinking green light indicates the notebook is in suspended mode.
	Blinking red light indicates the battery is being charged. After fully charged, the battery LED indicator will turn off.

Key Board Features

Function (Hot) Keys

Graphic Symbol	Action	System Control
	Fn + F1	Enters Suspend Mode.
	Fn + F3	Turns Battery Warning Beep on or off.
	Fn + F4	Changes Display Mode: LCD-only, CRT-only and LCD&CRT.
	Fn + F5	Turns Speaker Volume up.
	Fn + F6	Turns Speaker Volume down.
	Fn + F7	Increases Display Brightness.
	Fn + F8	Decreases Display Brightness.
	Num Lock	Enables the embedded keypad to work in numeric mode. The keys act like numeric keypads in a calculator. Use this mode when you need to do a lot of numeric data entry. An alternative would be to connect an external numeric keypad.
	Scroll Lock	Press the Scroll Lock key and then press ↑ or ↓ to move one line up or down.

Note:
For various system controls, press the Fn (Function) key and the Fx key simultaneously. The Fn key is located at the left-bottom corner on the keyboard.

Windows Keys

Your keyboard also has two Windows keys:

1. **Start Key**

This key allows you to pull up the Windows Start Menu at the bottom of the taskbar.

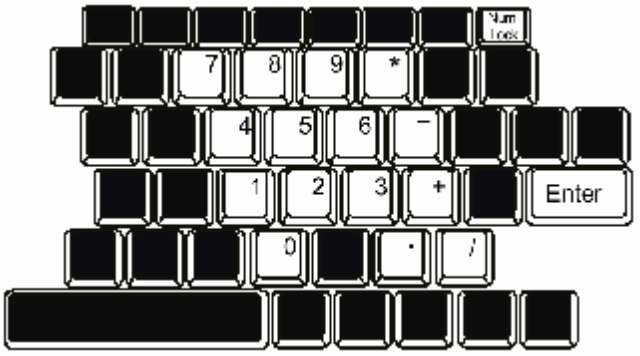
2. **Application Menu Key**

This key brings up the popup menu for the application, similar to a click of the right mouse button.

Embedded Numeric Key Pad

Press Num Lock to enable the embedded numeric key- pad. The numbers are printed in upper right corner of a key, in a color different from the alphabets. These keys-pads are complete with arithmetic operators (+, -, *, /).

Press Num Lock to revert to normal character keys.



Touch Pad (Glide Pad) with Page Up / Page Down Function

The built-in touch pad, which is a PS/2-compatible pointing device, senses movement on its surface. As you move your fingertip on the surface of the pad, the cursor responds accordingly.

The following items teach you how to use the touch pad:

1. Move your finger across the touch pad to move the cursor.
2. Press buttons to select or execute functions. These two buttons are similar to the left and right buttons on a mouse. Tapping on the touch pad twice produces is similar to double clicks the left button of a mouse.
3. Press center Page Up / Down button to move up or down a page in Windows application.

Function	Left Button	Right Button	Page Up / Down Button	Equivalent Tapping Action
Execution	Click twice quickly			Tap twice (at the same speed as double-clicking the mouse button)
Selection	Click once			Tap once
Drag	Click and hold to drag the cursor			Tap twice quickly and on the second tap hold finger to the touch pad to drag the cursor
Access Context Menu		Click once		
Move One Page Up or Down			Click upper portion to move up a page Click lower portion to move down	

Tips on Using the Touch Pad:

1. The double-click speed is timed. If you double-click too slowly, your notebook responds as if you single-clicked twice.
2. Keep your fingers dry and clean when using the touch pad. Also keep the surface of touch pad clean and dry to prolong its life.
3. The touch pad is sensitive to finger movements. Hence, the lighter the touch, the better the response. Heavy touch does not produce better response.

Display

Your notebook uses a high performance 14.1-inch active matrix TFT panel that supports SXGA+ high resolution and multi-million colors for comfortable viewing.

Adjusting the Display Brightness

Note:
To maximize your battery operating time, set the brightness to the lowest comfortable setting, so that the internal back-light uses less power.

The notebook uses special key combinations, called hot keys, to control brightness.

Press Fn+F7 to increase the brightness.
Press Fn+F8 to decrease the brightness.

Extending the Life of the TFT Display Device

Observe the following guidelines to maximize the life of the backlight in the display.

1. Set the brightness to the lowest comfortable setting (Fn+F8).
2. When working at your desk, connect your notebook to an external monitor and disable the internal display Fn+ F4.
3. Do not disable the suspend time-outs.
4. If you are using AC power and have no external monitor attached, change to suspend mode when not in use.

Warning:
To avoid damaging the display, do not slam it when closing. Do not place any object on top of the computer when the display is closed.

Opening and Closing the Display Panel

To open the display, slide the LCD latch to the right and lift up the lid. Then tilt it to a comfortable viewing position.

To close the display cover, fold it down gently until the LCD latches click into place.

Graphic Controller

This notebook comes with an embedded 4X AGP-bus on Intel® 855GM chipset graphics on a share memory architecture (UMA) (i.e. a portion of the system memory is allocated for graphics engine's use.) Depending upon the total system memory installed, up to 64MB dynamic video memory allocation can be automatically allocated as graphics frame buffer by video driver. More memory to the graphics subsystem means higher graphics performance; however, as it decreases system memory capacity, overall system performance may suffer change.

Dual Display and Extended Desktop Support

The notebook's display and multimedia capabilities are great for giving presentations. If you prefer, you can also connect an external monitor when giving presentations. This notebook supports LCD and CRT displays in Dual Display Clone mode both displays show the same contents.

In the Extended Desktop mode, the system allows you to open and work on different applications independently across two display devices (i.e. the built-in LCD display and external display.)

To enable Dual Display and Extended Desktop function, do the following:

There are two ways to enable LCD with an external CRT or projector to the notebook, one is to get into Control Panel and double clicks Intel® Extreme Graphics Icon to choice to enable Dual Display or Extended Desktop. The other is double clicks Intel® Extreme Graphics Icon on the right bottom of Windows command column to select the Output to Dual Display or Extended Desktop.

Audio Devices

Your notebook's Audio is Sound Blaster Pro-compatible.

Adjusting the Volume Manually

To increase the volume, press Fn+ F5.
To decrease the volume, press Fn+F6.

Adjusting the Volume in Windows

1. Click the speaker symbol in the taskbar in Windows.
2. Drag the volume control bar up or down to adjust the volume.
3. To temporarily silence the speaker without changing the volume setting, click Mute.

Adjusting the Speaker Volume Using the Volume Dial

Rotate the Volume Dial (located to the front side of the notebook) to adjust the speaker volume.

Turn to the right to increase loudness.
Turn to the left to decrease loudness.

Voice Recording

You need to use audio processing software to enable the built-in microphone. For example, you may use Microsoft Sound Recorder.

When you begin voice recording using the notebook's built-in microphone, be sure that your mouth is within near distance (no longer than 20~30 cm) to the microphone. If the record level is too small, you may also increase the microphone gain via the volume control panel in Windows or by turning the Volume Dial.

Modem

Your notebook comes with a 56K V.92 internal fax/modem and a phone jack (RJ-11), which is located on the front side of your notebook computer.
Use a telephone cable to connect the notebook to the telephone wall outlet.

Note:
Some Windows versions do not support fax function. To enable this function, please install a fax communication software on your PC.

Connecting the Modem

1. Plug one end of the phone line into the modem port located on the rear side of the notebook.
2. Plug the other end of the line into the analog phone wall outlet.

Modem Setting

Depending on where your computer is used, you may need to change settings in the modem. Correct setting will allow you to maintain a stable connection in a country where its telecommunication system may be different to others.

Warning:
The internal modem is intended for use on an analog phone line, also called a POTS (Plain Old Telephone Service) line. This modem cannot be connected directly to a digital telephone line, such as those commonly found in a business office. You may either obtain an analog line or an analog converter compatible with the phone line you're using.

To change the modem setting, do the following:

1. Go to [Start > Settings > Control Panel] and double-click on Modem Settings icon. You will see a similar dialog box.

2. Click on the pull-down menu and select the country where it is applicable. Click on OK to exit.

Network Adapter

Your notebook is equipped with a 10/100Base-T Ethernet network adapter. Connecting the active LAN cable to the RJ-45 LAN port located on the left side of the notebook. This allows you to access and transmit data in the local area network.

Connecting to the Network

Use Unshielded Twisted Pair (UTP) Ethernet cable only.

1. Insert one end of the UTP cable into the network connector until the connector snaps securely into the receptacle.
2. Either connects the other end of the cable to an RJ-45 jack wall outlet or to an RJ-45 port on a UTP concentrator or hub in the network.

Cabling Restriction for Networks

The following restrictions should be observed for 100BASE-T networks:

- **n** The maximum cable run length is 100 meters (m) (328 feet [ft]).
- **n** For 100-Mbps operate, use Category 5 wiring and connections.

Consult Windows manual and / or Novell Netware user‘s guide for the software installation, configuration and operation of the network.

SECTION 2

TROUBLE SHOOTING

In this section, you will learn how to solve common hardware and software problems.

Your notebook has been fully tested and complies with the system specifications before shipping. However, incorrect operations and/or mishandling during shipment may cause problems.

This section provides a reference for identifying and correcting common hardware and software problems that you may encounter.

When you encounter a problem, you should first try to go through the recommendations in this section. Instead of returning the notebook and waiting for repair, you may easily solve the problems by considering the following problems and possible solutions. If the error continues, contact your reseller for service information.

Before taking further actions, consider the following suggestions:

- **n** Check to see if the problem persists when all the external devices are removed.
- **n** Check to see that the green light indicator on the AC adapter is lit.
- **n** Check to see the power cord is properly plugged to the wall outlet and to the notebook.
- **n** Check to see the power indicator of the notebook is on.
- **n** Check the brightness control on the keyboard if the LCD display appears dim.
- **n** Check to see if your keyboard is operational by pressing and holding any key. An audible beep indicates the keyboard is functioning correctly.
- **n** Check for any incorrect or loose cable connections. Make sure the latches on the connectors latch securely on to the receptor end.

- Be sure you have not performed an incorrect setting on the hardware devices in the BIOS Setup utility. A faulty setting may cause the system to misbehave. If you are not sure of the changes you made, try to restore all the settings to factory defaults.
- Be sure all the device drivers are installed properly. For example, without the audio driver properly installed, the speakers and microphone will not work.
- If external devices such as USB camera, scanner, and SCSI card do not function correctly when connected to the system, it is usually the device's own problem. Consult the device's manufacturer first.
- Some software programs, which have not gone through rigorous coding and testing, may cause problems during your routine use. Consult the software vendor for problem solving.
- Not all peripheral are plug-and-play capable. You need to restart the system with these devices powered up and connected first.
- Be sure to go to BIOS SETUP and load DEFAULT SETTING after any BI OS updated.

Audio Problems

No speaker output –

- Software volume control is turned down in Microsoft Sound System. Double-click the speaker icon on the lower right corner of the taskbar to see if the speaker has been muted.
- Press Fn+F5 Up increase the volume.
- Turn up the volume dial located at the front edge of the notebook. See Section 1 for its location.
- Most audio problems are software-related. If your notebook worked before, chances are software may have been set incorrectly.
- Go to [Start > Settings > Control Panel] and double-click the Multimedia icon (or Sounds and Audio Device Property icon). In the Volume page, make sure that VIA VT1616 Wave is the playback device.

Sound can not be recorded –

- Double-click the speaker icon on the lower right corner of the taskbar to see if the microphone has been muted.
  1. Click Options and select Properties.
  2. Select Recording and click the OK button.
  3. After Click OK button, the recording volume control panel will appear.
- Go to [Start > Settings > Control Panel] and double-click the Multimedia icon (or Sounds and Audio Device Property icon). In the Audio page, make sure that VIA VT1616 Wave is the playback device.
-

Hard Disk Problems

The hard disk drive does not work or is not recognizable -

- If you had just performed a hard disk upgrade, make sure the hard drive connector is not loose and the hard disk drive is also correctly seated. Remove it and reinsert it firmly, and restart your PC. (Refer to Section 4 for details.)
- The new HDD may need to be partitioned and reformatted. O/S and drivers will need to be re-installed as well.
- Check the hard disk indicator LED. When you access a file, the LED lamp should light up momentarily.
- The new HDD may be defective.
- If your notebook has been subjected to static electricity or physical shock, you may damage the disk drive.

The hard drive is making abnormal whining noises –

- You should back up your files as soon as possible.
- Make sure the source of noise is indeed from the hard drive and not the fan or other devices.

The hard disk drive has reached its capacity –

- Run Disk Cleanup utility in Windows. [Start > Programs > Accessories > System Tools > Disk Cleanup] The system will prompt you for what to do.
- Archive files or programs that you had no longer used by moving them to an alternative storage medium (floppy disk, optical recordable disk, etc.) or uninstall programs that no longer use.
- Many browsers store files in the hard drive as a cache to speed up the performance. Check the program's Online Help for instructions on decreasing the cache size or on removing temporary Internet files.
- Empty the Recycle Bin to create more disk space. When you delete files, Windows saves them to the Recycle Bin.

The hard disk takes longer to read a file -

- If you have been using the drive for a period, the files may be fragmented. Go to [Start > Programs > Accessories > System Tools > Disk Defragmenter] to perform a disk defragmentation. This operation may take a while.

The files are corrupted -

- Run the Error-checking utility in Windows to check the HDD. Double-click My Computer. Right-click C: and select Properties. Click Check Now in Error-checking in Tools.

CD-ROM or DVD-ROM Problems

The CD-ROM or DVD-ROM drive does not work -

- Try rebooting the system.
- The disk is damaged or files are not readable.
- After you have inserted a CD-ROM disk, it may take a moment before you can access its content.

The drive dose not read any disks -

- The CD may not be properly seated in the tray. Make sure the disk is firmly seated onto the spindle.
- The disk is damaged or not readable.

The disk can not be ejected -

- Normally, it takes a few seconds to eject the disk.
- If the disk can not be ejected, it may be mechanically jammed. Straighten out a paper clip and insert it to a tiny hole next to the eject button. This should reject the disk tray. If not, return the unit for repair. Do not forcefully pull on the disk tray.

Display Problems

The display panel is blank when the system is turned on -

- Make sure the notebook is not in the Standby or Hibernate suspend modes. The display is turned off to conserve energy in these modes.
- Press Fn+F7 to increase the screen brightness.
- Press Fn+F4 to make sure the notebook is not in the CRT-output only mode.

The screen is difficult to read -

- Press Fn+F7 to increase the screen brightness.
- The display resolution should at least be set to 1024x768 for optimal viewing.
  1. Go to [Start > Settings > Control Panel] and double-click on the Display icon.
  2. Under the Settings page, set screen resolution to 1024x768 and choose at least 256 colors.

The screen flickers -

- It is normal if the display flickers a few times during shutting down or powering up.

Keyboard and Pointing Device (Mouse) Problems

The built-in keyboard accepts no input -

- This notebook is designed to use only one keyboard at once time. If you are connecting an external keyboard to the system, the built-in keyboard may not work.
- Try restarting the system.

The built-in touch pad does not work -

- Make sure the internal PS/2 port (pointing device) is enabled (or set to Auto Detect) in the BIOS Setup. Go to Section 2 *BIOS Setup* for details on how to enable the PS/2 mouse.

The built-in touch pad performs erratically -

- Make sure there is no excess perspiration or humidity on your hand when using the touch pad. Keep the surface of the touch pad clean and dry.
- Do not rest your palm or wrist on the surface of the touch pad while typing or using the touch pad.

The characters on the screen repeat while I type.

- You may be holding the keys down too long while you're typing.
- Keep the keyboard clean. Dust and dirt under the keys could cause them to stick.
- Configure the keyboard to wait longer before the auto repeat feature starts. To adjust this feature, Go to [Start > Settings > Control Panel], and double-click on the Keyboard icon. A dialogue box shows up with the adjustable settings for t he keyboard.

CMOS Problem

A message "CMOS Checksum Failure" displays during the booting process -

- Try to reboot the system.
- If the message "CMOS Checksum Failure" appears during the booting procedure, it may indicate failure of the CMOS battery. If so, you need to replace the battery. This battery normally lasts one to two years on continuous operation. However, for a typical user, the battery lasts three to five years. The battery is of type ML1220 (3V). You may replace it by yourself. The battery is located nearby the DIMM Socket. See Section 4 on how to remove the DIMM cover. If you are not sure how this is done, return the notebook to the dealer.

Memory Problems

The POST does not show an increased memory capacity when you have already installed additional memory -

- **n** Certain brands of memory module may not be compatible with your system. You should ask your vendor for a list of compatible DIMM.
- **n** The memory module may not be installed properly. Go back to Section 4 to review the details of this operation.
- **n** The memory module may be defective.
- **n** This system's graphic engine shares a portion of the system's DRAM as its frame buffer. How much is being shared depends on the setting in the BIOS setup. Go to Section 2 for details.

The O/S issues an insufficient memory error message during operation -

- **n** This is often a software or Windows-related problem.
- **n** Close the application programs you're not using and restart the system.
- **n** Otherwise, you have to install additional memory module. For instructions, go to Section 4 *Upgrading Your Notebook*.

Modem Problems

The built-in modem does not respond -

- Make sure the modem driver is loaded properly. Go to [Start > Settings > Control Panel > Modem Settings] and go to Modem Helper. Make sure SmartLink 56K Voice Modem or Uniwill V.90 Modem is listed. Otherwise, click the Add button to add the modem drive, which is located in the Utility CD (or floppy diskette).
- Go to [Start > Settings > Control Panel > System] and click Device Manager button in the Hardware page to check for possible resource or driver conflict. See Windows on-line help or manual for how to handle such problems.
- Make sure the phone line where the notebook is connected to is working.

Connection difficulties -

- Be sure to disable Call Waiting.
- Be sure to have the correct country setting where your notebook is used. [Start > Settings > Control Panel > Modem Settings > Configuration] In the Country pull-down manual, select the appropriate country setting.
- Excessive line noise might cause the connection to be dropped. To check this, put the regular phone handset on the line and placing a phone call. If you do hear abnormal noise, try to make the modem connection with a different line or contact your local telephony company for service.
- Make sure the RJ-11 cable (the one that goes from the modem to the telephone line) is firmly connected to the modem's RJ-11 jack and the telephone line socket.
- Check the serial port settings. Make sure the hardware and software are referring to the same COM port.
- Try a different receiver number and see if the problem persists.
- Be sure the line has a dial tone.

Network Adapter Problems

The Ethernet adapter does not work –

- Go to [Start > Settings > Control Panel > System > Hardware > Device Manager]. Double-click on Network Adapters and check if Intel PRO/100 VE Network connection PCI Fast Ethernet Adapter appears as one of the adapters. If it does not exist, Windows has not detected the Intel Ethernet adapter or the device driver has not been installed properly. If there is a yellow mark or red cross on the Intel network adapter, there may be a device or resource conflict. Replace / update the device driver from the factory CD-ROM disk or consult Windows manual on how to solve this problem.
- Make sure the physical connections on both ends of the cable are good.
- The hub or concentrator may not be working properly. Check to see if other workstations connected to the same hub or concentrator are working.

The Ethernet adapter does not appear to operate in the 100Mbps transmission mode –

- Make sure the hub you are using supports 100Mbps operation.
- Make sure that your RJ-45 cable meets the 100Base-TX requirements.
- Make sure the Ethernet cable is connected to the hub's socket that supports 100Base-TX mode. The hub may have both 100Base-TX and 100Base-T sockets.

PC Card (PCMCIA) Problems

PC Cards do not function -

- Make sure you have properly installed the driver for the card.
- Consult the card's manual or contact the vendor for trouble-shooting.

The PC card can not be recognized -

- Windows NT4.0 does not support PCMCIA (PC Card) function. You may need an external program for this.
- Make sure the card is fully inserted; the outer end of the card should be even with the edge of the notebook.
- Remove and insert the PC card again.
- Make sure there is no IRQ conflict with the card. See Windows on-line help for solving IRQ conflicts.
- Reboot the notebook and see if the problem persists.
- The card may be defective. Try the card on another system, if possible.

Windows crashes or freezes when you remove the PC card -

- Make sure you have <Stop> the PC card before removing it. Double-click the PC Card icon at the lower right corner of the task bar and select the card you wish to stop. When you click <OK>, in few seconds Windows will prompt you to remove the card.

Performance Problems

The notebook becomes hot -

- In a 35°C environment, the notebook's bottom case is expected to reach 50 degrees.
- Make sure the air vents are not blocked.
- If the fan does not seem to be working at high temperature (50 degrees Celsius and up), contact the service center.
- Certain programs that are processor-intensive may increase the notebook temperature to a degree where the notebook automatically slows down its CPU clock to protect itself from thermal damage.

The program appears stopped or runs very slowly -

- Press CTRL+ALT+DEL to see if an application is still responding.
- Restart the notebook.
- This may be normal for Windows when it is processing other CPU-intensive programs in the background.

- You may be running too many applications. Try to close some applications or increase system memory for higher performance.
- The processor may have been overheated due to the system's inability to regulate its internal heat. Make sure the notebook's ventilation grills are not blocked.

Power, Start, and Battery Problems

The notebook powers down as soon as it is powered on -

- Battery power may be extremely low. The circuitry prevents a complete power drain, which is not intended for Lithium Ion batteries. Use the adapter to charge it for several hours before trying again.

The notebook beeps intermittently -

- When battery charge is low, an audible beep warns you. Press Fn+F3 to turn off the warning beep, if desired.

The battery life gets shorter and shorter -

- The battery has a finite life of about 500 charge cycles. If your battery is over one or two years old, it may be time to have it replaced.
- Try a higher power saving setting in the BIOS or in the Windows Power Management.

The battery does not charge -

- Make sure the AC adapter is plugged into a valid power source.
- The battery charge indicator LED on the notebook should be lit when you plug in the AC adapter.
- Make sure the battery module is fully inserted in its bay; make sure the battery latch is in locked position.
- If the battery is operating at a very high temperature, it may not charge.

Printing Problems

The printer does not print -

- Make sure the cable connection is secured and the printer is powered up.
- Run the printer self test to see if it reports any problem.
- Check if the printer displays any error messages. A paper jam may have occurred.
- Make sure you have already installed the printer driver.
- Most printer (using parallel or serial port) problems are software-related. Consult Windows on-line help or contact the printer vendor for assistance.
- Try rebooting the system with the printer powered up and connected first.

The printer does not print what's on the screen -

- The information displayed on the screen may not exactly be the same as what is printed.
- If the printer print extra and strange symbols, it is the result of the cache (garbage) in the printer memory buffer. Cancel all the printer tasks and toggle off the printer power switch to clear up the memory buffer. Then, turn the printer back online and print again.
- Make sure you install the correct printer driver.

Firewire (IEEE1394) and USB Problems

The USB device does not work -

- Windows NT 4.0 does not support USB protocols
- Check the settings in the Windows Control Panel.
- Make sure you have installed the necessary device drivers.
- Contact the device vendor for additional support.

The IEEE1394 port does not work -

- Make sure the cable is fully connected.
- Make sure you have installed the necessary device drivers.
- Contact the device vendor for additional support.

APPENDIX A

PRODUCT SPECIFICATION

Processor and Core Logic

Processor	Intel® Centrino™ Pentium® M processor with 1.7GHz. uFCPGA package
L1 Cache	64KB - 32KB for Instruction cache, 32KB for Write-back Data cache on-die
L2 Cache	1MB - Intel® Centrino™ Second Level cache on-die
Core logic	Montara-GM chipset with Graphic, Audio, Modem, and Ethernet controller integrated
Bus Architecture	400 MHz. Front Side Bus and 100/133 MHz Memory Bus Integrated AGP with AGP v2.0 Compliant

System Memory

Memory Type	DDR 200/266 SDRAM, PC2100 compatible
Default	0KB / 64MB / 128MB / 256MB / 512MB, 2.5-Volt, 64-bit
Memory Expansion	Two 200-pin DDR SO-DIMM sockets, up to 1GB x 2

LCD

Display Panel	14.1-inch SXGA+ active-matrix TFT display with up to 16M colors

Graphic Engine

Graphic Core logic	Integrated in Montara with integrated AGP bus 2D / 3D graphics accelerators UltraAGPII graphics capability (similar to 4X AGP) 3D Graphics Supported
Playback	Built-in DVD acceleration logic, MPEG2 decoding
Multi monitor Display	Simultaneous LCD / External Monitor Display Multi-monitor LCD and External Monitor Display Supported
Memory Sharing	Share-memory architecture (UMA) with up to 50% of the total system memory and/or up to 64MB dynamically

Storage Capacity

- *Hard Disk* — 2.5-inch format (9.5mm height) hard disk drive
  Ultra DMA 33/66/100

Audio

- *Audio Chipset* — ICH4-M with integrated audio controller
- *Sound Capability* — 64-voice Polyphony Wavetable Synthesizer
  DirectSound 3D accelerator
  Full duplex, independent sample rate converter
  SoundBlaster Pro/16 compatible
  AC'97 V2.2 compatible
  Full duplex and independent sample rate converter for audio recording and playback

Modem

- *Chipset* — ICH4-M with Modem Controller integrated
- *Transmission Speed* — V.92 / K56flex for download data speed up to 56000bps.
  V.34, V.17, V.29 protocol supported

LAN

- *Network Adapter* — ICH4-M with integrated PCI Fast Ethernet function for 10/100Base-T network standards.
- *PnP Function* — Windows 98 / ME / 2000 / XP Plug and Play compatible
- *Flow Control* — Automatic Jam and auto-negotiation for flow control
- *Speed Selection* — Auto Negotiation and Parallel detection for automatic speed selection (IEEE 802.3u)
- *Other Features* — High performance 32-bit PCI bus master architecture with integrated DMA controller for low CPU and bus utilization
  Remote Wake-up Scheme supported Hot Insertion supported

Other Hardware Devices

- *CD-ROM* 5.25-inch format (12.7mm height) fixed module with 24X speed
- *CD-RW* 5.25-inch format (12.7mm height) fixed module (Optional)
- *DVD ROM* 5.25-inch format (12.7mm height) fixed module (Optional)
- *Combo* 5.25-inch format (12.7mm height) fixed module (Optional)
- *Keyboard* 87 / 88-key touch-type QWERTY keyboard with embedded numeric keypad
- *Pointing Device* Touch Pad with Page Up / Down buttons

PC Card

- *PCMCIA Controller* O2Micro OZ 6912 controller
Single slot for TYPE I/II
- *Features* Hot insertion and removal supported

Ports

- *VGA Port* One 15-pin CRT connector
- *Audio Port* One stereo line-out jack & One microphone-in jack
- *1394 Port* One IEEE1394 / Firewire mini-type connector
- *USB Port* Three USB 2.0 connectors
- *Modem Port* One standard phone jack (RJ-11)
- *LAN Port* One standard network connector (RJ-45)
- *Power Port* One DC-in connector
- *PS/2 Port* One 6-pin serial port

Power

- *Main Battery* Li-Ion 8-cell @3.7V / 2000mAh, 59.2W
- *AC Adapter* Input: 100~240V, 50~60Hz, 1.7A Max @ 115V
Output: 20V, 3.5A, 70W or 20V, 4.5A, 90W
- *Recharge (100%)* System OFF: 3 HR (standard)
System ON: 6 HR (standard)
- *Other Features* Low Battery Warning
Suspend / Resume capability

BIOS

PnP Function	AMI PnP BIOS
Self Test	Power On Self Test
Auto Detection	DRAM auto-detection, auto-sizing L2 Cache auto-detection Hard disk type auto-detection
Power Management	APM 1.2 (Advanced Power Management) & ACPI 2.0 (Advanced Configuration Power Interface)
Other Features	32bit access, Ultra DMA, PIO5 Mode support Multi-boot capability

Operating System

O/S	Microsoft Windows 95 / 98 / ME / 2000 / XP Microsoft NT 4.0

Physical Specification

Dimension and Weight	305 (L) x 270 (W) x 25.4 (H) mm. About 5.5 lbs / 2.5kgs
Environmental Limitations	Operating Temperature: 5 to 35°C (41 to 95° F) Operating Humidity: 20 to 90 percent RH (5 to 35°C) Storage Temperature: -20 to 50°C (-4 to 122°F)

Optional Devices

USB FDD (USB 1.1)
DDR SO-DIMM module

Note: Product Specifications are subject to change without notice.

APPENDIX B

AGENCY REGULATORY NOTICES

Federal Communications Commission Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or television technician for help.

Modifications
The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by the Manufacture may void the user's authority to operate the equipment.

Connections to Peripheral Devices
Connections to this device must be made with shielded cables with metallic RFI/EMI connector hoods to maintain compliance with FCC Rules and Regulations.

Declaration of Conformity
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

European Notice
Products with the CE Marking comply with both the EMC Directive (89/336/EEC) and the Low Voltage Directive (73/23/EEC) and R&TTE Directive (1999/5/ec), issued by the Commission of the European Community.
Compliance with these directives implies conformity to the following European Norms:

- EN55022 (CISPR 22) Radio Frequency Interference
- EN50082 (IEC801-2, IEC801-3, IEC801-4) Electro-magnetic Immunity
- EN300 328-2(ETS 300 328) Radio Spectrum Matter
  TBR21V (ETS TBR21) Terminal Equipment
- EN60950 (IEC950) Product Safety

Canadian Notice
This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of the Canadian Department of Communications.

Le present appareil numerique nemet pas de bruits radio electriques depassant les limites applicabl es aux appareils numeriques de Classe B prescrites dans le reglement sur le brouillage radioelectr ique edicte par le Ministere des Communications du Canada.

Power Cord Requirement
The power cord supplied with the notebook AC adapter should match the plug and voltage requirements for your local area. Regulatory approval for the AC adapter has been obtained using the power cord for the local area. However, if you travel to a different area and need to connect to a different outlet or voltage, you should use one of the power cords listed below. To purchase a power cord (including one for a country not listed below) or a replacement ac adapter, contact your local dealer.

U.S. and Canada
- The cord set must be UL-Listed and CSA-Certified.
- The minimum specifications for the flexible cord are (1) No. 18 AWG, (2) Type SJ, and (3) 3-conductor.
- The cord set must have a rated current capacity of at least 10 A.
- The attachment plug must be an earth-grounding type with a NEMA 5-15P (15A, 125V) or NEMA 6-15P (15 A, 250V) configuration.

Japan
- All components of the cord set (cord, connector, and plug) must bear a `T` mark and registration number in accordance with the Japanese Dentori Law.
- The minimum specification for the flexible cord are: (1) 0.75 mm^2 conductors, (2) Type VCT or VCTF, and (3) 3-conductor.
- The cord set must have minimum rated current capacity of 7 A.
- The attachment plug must be a two-pole, grounded type with a Japanese Industrial Standard C8303 (15 A, 125 VAC) configuration.

Other Countries
- The cord set fittings must bear the certification mar k of the agency responsible for evaluation in a specific country. Acceptable agencies are:

  BSI (UK)
  OVE (Australia)
  CEBEC (Belgium)
  SEMKO (Sweden)
  DEMKO (Denmark)
  SETI (Finland)
  EANSW (Australia)

SEV (Switzerland)
IMQ (Italy)
UTE (France)
KEMA (The Netherlands)
VDE (Germany)
NEMKO (Norway)
BSMI (Taiwan)
CCC (China)
PSB (Singapore)
PSE (Japan)

- The flexible cord must be of a HAR (harmonized) type HO5VV-F 3-conductor cord with a minimum conductor size of 0.03 square inches.
- The cord set must have a current capacity of at least 10 A and a nominal voltage rating of 125 / 250 VAC.

Battery Safety

- The battery pack is intended to use only with this notebook.
- Do not disassemble the pack.
- Do not dispose of the battery pack in fire or water.
- To avoid risk of fire, burns, or damage to your battery pack, do not allow a metal object to touch the battery contacts.
- Handle a damaged or leaking battery with extreme care. If you come in contact with the electrolyte, wash the exposed area with soap and water. If it contacts the eye, flush the eye with water for 15 minutes and seek medical attention.
- Do not charge the battery pack if the ambient temperature exceeds 45°C (113°F).
- To obtain a replacement battery, contact your local dealer.
- Do not expose the battery pack to high storage temperatures (above 60°C, 140°F).
- When discarding a battery pack, contact your local waste disposal provider regarding local restrictions on the disposal or recycling of batteries.
- Use only supplied AC adapter for charging.

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions or local laws.

VORSICHT! Explisionsgefahr bei unsachgernazen Austausch der Batterie. Ersatz nur durch denselben oder einem vom Hersteller empfohlenem ahnlichen Typ. Entsorgung gebrauchter Batterien navh Angaben des Herstellers.

CAUTION: THIS NOTEBOOK COMPUTER USE WITH POWER SUPPLY (AC-DC) MODEL:

	LISHIN9901A2070 325
ATTENTION:	THIS NOTEBOOK COMPUTER POUR UTILISER (AC-DC) AVEC LE MODELE: LISHIN9901A2070 325

Lithium battery warning

This computer contains a lithium battery to power the clock and calendar circuitry.

CAUTION: Danger of explosion if battery is replaced incorrectly. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

ATTENTION: Il y a danger d'explosion s'il y a remplacementincorrect de la batterie. Remplacer uniquement avec unc batterie du méme type ou d'un type recommandé par le constructer. Mettre au rébut les batteries usagées confor mément aux instructions du fabricant.

VORSICHT! Explosionsgefahr bei unsachgemäßen Austausch der Batterie Ersatz nur durch denselben oder einem vom Hersteller empfohlenem ähnlichen Typ. Entsorgung gebrauchter Batterien nach Angaben des Herstellers.

Der Arbeitsplatzbezogene Schalldruckpegel nach DIN 45635 beträgt 70dB (A) oder weniger.

Zum Netzanschluâ dieses Gerätes ist eine gepr ûfte Leitung zu verwenden. Fûr einen Nennstrom bis 6A und einem Gerätegewicht größer 3kg ist eine Leitung nicht leichter als H05VV-F, 3G, 0.75mm^2 einzusetzen.

Die Steckdose muß nahe dem Gerät angebracht und leicht zugänglich sein.